

5

- 1. 20000 individuals were approached (as above) during trials.
- 2. (August 1982) 1/2 the total of 62 could date in the great majority
- 3. the first three dates, in the book of exactly following the pattern.
- 4. The first and second scissimiles of the 1983 edition occur in
- 5. with some anomalies of nomenclature sightings discussed in 4. all

Wellington, Ohio (2 August 1952); Fort Verde, Utah (2 August 1952);
Great Falls, Montana (15 August 1950); Rock, Montana (1 September
1950); Missoula, Montana (20 July 1952); and Missoula, Montana
August (5 August 1952); Rock River, Michigan (29 July 1952); and
Pawleys Island, Maine (23 October 1952).

After review and discussion of these cases (and about 35 others, in this detail), the Panel concluded that reasonable explanations could be suggested for most sightings and for deduction and conclusion as could be deduced (given additional data) that other cases might be explained in a similar manner. The Panel pointed out that because of the brevity of some sightings (e.g., 2-3 seconds) and the variability of the witnesses express themselves clearly (assuming that a conclusive explanation could not be expected for every case reported). Furthermore, it was considered that, normally, it would be a great waste of effort to try to collect most of the sightings, unless such action would further a training and educational program (see Table). The writings of Charles Fort were referenced to show

- 1. 2000 sightings were approached (no more than 5000; Austin).
- 2. 100000 (10%) of the total of counted birds in the great majority
- 3. the first survey also, in the book of object follow-up the probability
- 4. of a first survey limited facilities of the ABSL occasion occurred.
- 5. with some 100000 of significant sightings recovered in the first
- 6. 100000 sightings.

Waukegan, Illinois (1 August 1952); Greenfield, Indiana (2 July 1952); and
West Bend, Wisconsin (15 August 1952); Peoria, Illinois (3 September
1952); Washington, D. C., area (20 July 1952); and Kenosha, Wisconsin
Region (5 August 1952); Keweenaw River, Michigan (29 July 1952); and
Pecos River, New Mexico (23 October 1952).

After review and discussion of these cases (and about 15 others in this section), the Panel concluded that reasonable explanations could be suggested for most sightings and for destruction and concealment. It was concluded (given additional data) that other cases might be explained in a similar manner². The Panel pointed out that because of the brevity of some sightings (e.g. 2-3 seconds) and the variability of the witnesses' exposures themselves clearly (secondly) that a conclusive explanation would not be expected for every case reported. Furthermore, it was considered that, normally, it would be a great waste of effort to try to solve most of the sightings, unless such action would further a training and educational program. (see 1.1.1.1. and 1.1.1.2.) Charlotte Forte was referenced to show

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the "strange things in the sky" had been recorded for hundreds of years. It appeared obvious that there was no single explanation for a majority of the strange ones. The presence of radar and aircraft would specialize on the Radar proof of value at once in their common recognition of phenomena related to their fields. It was apparent that specialists in such additional fields as psychology, meteorology, aerodynamics, entomology and military air operations would extend the ability of the Radar to recognize many more categories of mysterious phenomena.

CHARLES ALVARES

The Board concluded unanimously that there was no evidence of a direct threat to national security in the objects sighted. Instances of "Red Knights" were cited. These were unexplained phenomena sighted by aircraft pilots during World War II in both European and Far East theaters of operation wherein "bells of light" would fly near or with the aircraft and maneuver rapidly. They were believed to be electrostatic (similar to St. Elmo's fire) or electro-magnetic phenomena or possibly light reflections from ice crystals in the air, but their exact cause or nature was never defined. Both Robertson and Alvarez had been concerned in the investigation of these phenomena, but David T. Griggs (Professor of Geophysics at the University of California at Los Angeles) is believed to have been the most knowledgeable person on this subject. If the term "flying saucers" had been popular in 1943 - 1945, these objects would

that can be introduced. In the interesting that in at least two cases definitely that the objects sighted was categorised by Roberts and Wren as possibly "Star Lighters", to date unexplained but not dangerous, they were not happy thus to dismiss the sightings by calling them names. It is their feeling that these pictures can not divert the focus of present knowledge of physical celestial bodies.

PROBLEMS AND SUGGESTIONS

It was the Panel's opinion that one of the Air Force's successes over U.S.A. is notwithstanding the Defense Command and the C.I.A. (intelligence) was probably caused by public pressure. The result being that the Air Force has instituted a fine channel for receiving reports of nearly anything anyone sees in the sky and efforts to understand. This has been particularly encouraged in papers and the articles on this and other subjects, such as space travel and celestial fiction. The result is the mass receipt of low-grade reports which tend to overload channels of communication with material which is relevant to hostile objects that might some day appear. The Panel agreed generally that this mass of poor-quality reports containing little, if any, scientific data was of no value. Quite the opposite, it was possibly dangerous in having a military service foster public concern in "nocturnal twinkling lights". The implication being, since the interested agency was military, that these objects were a threat to potential direct threats to national security. Accordingly, the need for declassification made itself apparent. Committee on a possible educational program are enumerated below.

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In the opinion of Mr. Robertson that the "missile" problem is best defined as being different in nature from the detection and identification of German V-1 and V-2 guided missiles prior to their appearance, and in March 1944. In this 1943-1944 intelligence situation (approximately), that the excellent intelligence and by July 1944 there was material evidence of the existence of "missiles" obtained from cracked wireless in Britain. This evidence gave the investigating team a basis upon which to operate. The existence of any "missiles" resulting from unexplained U.P.O. sightings led a British investigating group to the MIG problem. The results of their investigation, to date, strongly indicate that no evidence of hostile action or danger exists. Furthermore, the current reporting system would be no little value in the case of detection of enemy attack by conventional guided missiles; under such conditions "missiles" would be available almost at once.

Answers of Mr. Robertson, Captain

It was interesting to note that none of the members of the R.A.F. were bold to accept that this earth might be visited by extraterrestrial intelligence in any of some sort, some day. What they did not find was any evidence that related the objects sighted to space travelers. Mr. Courtney, in his presentation, showed how he had eliminated each of the known and probable causes of sightings, leaving him as unscrupulous as the only one remaining in many cases. Possibly his background as an aeronautical engineer and technical intelligence

and the Project Gemini, Manned for 15 months) could not be
launched. However, the Panel could not accept any of the cases
at first try because they were very unevaluated reports.

Successful explanations of the sightings were suggested in some
cases and in others the time of sighting was so short as to cause
懷疑 of visual impressions. It was noted by Dr. Coulam and
Clegg, that extraterrestrial artifacts, if they did exist, are not
rare nor alarming; rather, they are in the scale of natural phenomena
subject to coincidence only, just as cosmic rays were at the time
of their discovery 20 to 30 years ago. This was an attitude in
which Dr. Robertson did not concur, as he felt that such artifacts
would be of ~~surprise and great concern~~ not only to the U. S. but
to all countries. (Nothing like a common threat to unite peoples!)

Dr. Ruge noted that present astronomical knowledge of the solar
system makes the existence of intelligent beings (as we know them)
elsewhere than on the earth extremely unlikely, and the
concentration of their attention by any controllable means confined
to any one continent of the earth quite preposterous.

UFO, RUMBLE SPHERE

This case was considered significant because of the excellent
documentary evidence in the form of Kestrelco motion picture films
(about 1600 frames). The Panel studied these films, the case history,
AFISTO interpretation, and received a briefing by representatives of
the AFISTO Photo Interpretation Laboratory on their analysis of the
films. This term had expanded (as Air Force request) exponentially

After an hour of professional and unpreconditioned time in the interpretation of graph plots of individual frames of the film, the Panel agreed and collective motion of objects and variation in object brightness. It was the opinion of the P.M.L. representatives that the objects sighted were not birds, balloons or aircraft, and they justified because there was no "blinking" while passing through the air and were, "translucent, reflecting surfaces". Modes of motion and variation in light intensity of the objects were displayed, and the Panel Members were impressed by the evident understanding, knowledge and extent of effort of the P.I.L. team, they could not accept the conclusions reached. Some of the reasons for this were as follows:

1. A semi-cylindrical object can readily produce a reflection of sunlight without "blinking" through 60° of arc travel.
2. Although no film was available on the behavior of birds as potentially translucent balloons in bright sunlight, the apparent motions, sizes and brightnesses of the objects were considered strongly to suggest birds, particularly after the Panel viewed a short film showing high reflectivity of geese in bright sunlight.
3. Full description of the objects sighted as "circles, translucency" in color would be expected in cases of significant reflections of sunlight from convex surfaces where the brilliance of the reflection would obscure other portions of the objects.

1. In 1960 in the Great Falls case were believed to have probably been different, and the bright lights such reflectors.
2. There was no valid reason for the attempt to isolate the objects in the Sectional sighting to those in the Great Falls sighting. This may have been due to misinterpretation in Koda's directive. The objects in the Great Falls sighting are strongly suspected of being reflections of aircraft known to have been in the area.
3. The intensity change in the Sectional lights was too great for acceptance of the P.M.C. Hypothesis that the apparent dotted and changing intensity of the lights indicated extremely high speed for small control panels.
4. Apparent lack of guidance of investigations by the C.S.I.R. with U.P.O. reports and explanations.
5. Analysis of light intensity of objects made from duplicate rather than original film. The original film was noted to have a much lighter background (reflecting relative brightness of objects) and the object to appear much more bright.
6. Method of obtaining data of light intensity appeared faulty because of unreliability of equipment and questionable assumptions in taking averages of readings.
7. No data had been obtained on the sensitivity of Koda film to light of various intensities using the same camera type at the same lens openings.

... The 1970s' "big number" (within the first forty years of
Confidential 2100) were not received from the places of the
original press photo in the rest of the 2100s.

... It will be noted directly that the date available on file
regarding the admissions of possible identification of certain date
as referred to photographing confidential 2100s follows released
from the date under certain weather conditions, checking 1970 2100s
and possible characteristics with respects to photographs and
admitting apparent remains and objects from their original
source. It was considered that the return of such items would prob-
ably lead to identifiable information of value in an enforcement or
intelligence program. However, the Board reported that the cost in dissolving
any item effect required to collect up and replace every one of the
various or new separate involved through channels each year (\$3,000.00
each) would not be justified. It was felt that there will always be
admissions, for which complete data is lacking, that can only be
collected with consequent considerable cost with a long time delay. If
a 2100, the long delay in obtaining and using tends to dis-
advantage in value. In addition, the preceding program should
have as a major purpose to combat other as popular feeling that
such a date, no matter how given the date, must be exploded in detail
as when given to the requirement every administrative
and/or personnel to be supplied, could be completely and normally for
disseminated. In other words, the burden of proof is on the original
of the photograph.

1. THE SIGHTING PROBLEMS

Mr. Daniel Moshier was in agreement with other committee members, that much evidence of any Soviet threat from these sightings was mostly misleading, isolated sightings might well reflect continuing Soviet

- a. Misidentification of actual enemy activities by defense personnel
- b. Confusing of enemy by reporting channels with "false" information ("noise & signal" analogy—Barber).
- c. Subjectivity of analysts to their hypothesis and greater value attributed to reported enemy psychological warfare.

Barber also felt concerned that the first two of these problems may seriously affect the US defense intelligence system, and should be studied by experts, possibly under DDCI. If US intelligence agencies are credited in a position to the "flying saucer" scare, or if reporting channels are saturated with false and poorly documented reports, our capability of detecting hostile activity will be reduced.

Dr. Hugo noted that base competent screening or filtering of reported sightings at or near the source is required, and that this can best be accomplished by an educational program.

2. THE ANALYSIS OF REPORTED SIGHTINGS

The map prepared by AFSC showing geographic locations of officially reported unconfirmed sightings (1952 only) was examined by the Panel. This map showed clusters in certain strategic areas such as Los Alamos, which might be explained on the basis of 24-hour watchful guard and

on, and the recording equipment used and locations. On the other hand, there had been no sightings in the vicinity of scientific stations or communications traffic where there were consistently multiple cases of unexplained sightings in non-foreign areas. Furthermore, there appeared to be no logical relationship to population centers. The Panel could find no ready explanation for these sightings. To the extent, however, that no systematic criticisms were to be observed, it would be likely that they would be seen first near foreign areas rather than in the U.S. 3.

INSTRUMENTATION SURVEY

The Panel was of the opinion that the present ATB program to place 200 inexpensive 35 mm. stereo cameras in the hands of various amateur control tower operators would probably produce little usable data, related to U.P.O.'s. However, it was recognized that such action would tend to allay public concern in the subject until an educational program had taken effect. It was believed that pre-existing interest in this subject was partly the result of public pressure in July 1952. With the poor results of the year-long Project ATB-100 program of 24-hour instrumentation watch (two frames of 35mm showing nothing distinguishable), a widespread program of day-watching would not be expected to yield much direct data of value.

There was considerable discussion of a possible "city patrol" by amateur astronomers (Nyquist) and by wide-angle cameras (Pugs). Dr. Dr. Dr. and Dr. Robertson pointed out that at present a considerable fraction

20. Dr. R. H. Hoyle, of the Royal Observatory, Greenwich, has been responsible for many years under contract to the Ministry of Supply for several surveys and accurate observing programs to establish the observational programs of the various Institutions listed below.

With the exception of those observatories so largely dedicated to the study of astronomical rather than unidentified objects, no trace of any identified, unidentified objects is known to Dr. Hoyle or Dr. Ryden. Such objects would most certainly be reported if found on patrol flights.

21. Dr. R. H. Hoyle advised where an astronomer refused to interrupt his observations in order to photograph an alleged sighting in a different part of the sky. This led Dr. Ryden to say that, if a program of tracking could be an adjunct of planned astronomical programs, liaison work would be involved and that the tracked astronomical personnel would photograph the sighting of an unidentified object.

22. The location of some of these programs and their directors are summarized as follows:

23. Harvard University, Cambridge, Mass. / Mexico (meteor patrol) -
McMath.
24. Yerkes Observatory, University of Chicago and Fort Davis, Texas
(several programs) - Mueller (asteroids), Kupper (asteroids),
Korngum (wide angle camera).
25. University of Alaska, Fairbanks (asteroids) - Elvey
26. Dominion Observatory, Ottawa (meteors) - Williams
27. Lick Observatory, California (sky map) - Minkowski
28. Mt. Wilson Observatory, California (sky map) - Shand

[REDACTED]

It was agreed by the Panel that no government-sponsored program of artificial microwave sky patrol is worthwhile at the present time, and that the encouragement of amateur instruments to undertake such a task might have the desired effect of over-explaining flying saucer stories in the public mind. However, the issue of radar decoys, called the preceding paragraph, could serve several purposes, such as, confusing the better understanding of radar interference as well as identification of U.S.A. 30.

PROBLEMS OF INTERNAL INTERFERENCE

One characteristic problem of radar operation is when the pulse signal (of approximately the same frequency) from station A may be picked up on the screen of station B and then as a high-speed track. A series of dots was recognized to have probably caused a number of J.P.O. reports. This problem was undetermined by information received identifying J.P.O. concern for solving this problem of signal identification before service use of very high-speed aircraft or guided missiles (1950-1953). The Panel believed that one answer to this problem was the use of a "suppressor filter" in the receiving circuit. [Dr. Miville] suggested that the problem might be better solved by the use of a "frequency mixer" where the operator receiving "key spot tracks" (in the order of 1000-20,000 m.p.h.) would operate a circuit which would alter slightly his station's pulse frequency ratio. If the signal received on the screen had been caused by mutual interference with another station, the track would now show 2000' at a different distance.



and the nature of the object, as it would appear at all. Mr. Murphy had a telephone connection into space and could read such text from a "radio mirror".

TELEVISION PROGRAM

The proposed series was canceled. One of Palomar Mountain, California, in October 1950, when some very accurate very scale for a few seconds apparently while at 50% of flying objects was observed visually; and two, a series of observations by the Los Angeles City Meteorite Association from August 1950 to October 1952, when some very considerable evidence was presented. Observations and records were available for the 1948, and 1950. There was able quickly to point out that the recorded date were undoubtedly due to instrumental effects that would have been recognized as such by more experienced observers.

The implication that "radiactive effects" were correlated with unidentified flying objects in these two cases was, therefore, rejected by the Board.

TELEVISION PROGRAM

The Panel's concept of a broad educational program integrating all of all concerned agencies was that it should have two major aims: "warning and "demonstrating".

The warning aim would result in proper recognition of usually non-harmful objects (e.g., balloons, aircraft reflections) as well as certain phenomena (meteors, fireballs, mirages, noctilucent clouds). Both visual and radar recognition are concerned. There would be many

Results of such education when collected, presented to economic and accountancy personnel. Initiative, initiative and degree of responsibility of different personnel would correspond to the categories of duty (e.g., sales personnel, private, control tower operators, Ground Observer Corps personnel, and collectors and enlisted men in other categories.) This briefing should result in a marked reduction in errors caused by misidentification and readjusted considerations.

The following can would result in reduction in public interest in "flying saucers" which today evokes a strong psychological reaction. This education could be accomplished by mass media such as television, motion pictures, and popular articles. Parts of such education would be aimed specifically which had been purveyed at first in 1947 emphasized. As in the case of conjuring tricks, there is much less satisfaction in the "secret" to know. Such a program should tend to reduce the current gullibility of the public and consequently their susceptibility to clever deceptive propaganda. The Panel noted that the general theme of Russian propaganda based on a subject with so many other possibilities for exploitation might indicate a possible Russian anti-war policy.

Results of the Panel and various suggestions related to the planning of such an educational program. It was felt strongly that psychologists familiar with mass psychology should advise on the nature and intent of the program. In this connection, Dr. Melville Cartell (Princeton University) was suggested. Cartell published "Education from

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During the study in the psychology of panic, mention about the famous Dr. R. Mathes radio broadcast in 1920 and his famous performed education particularly studies in the field of hypnosis. The names of Don Knotts (Comedian of TV show) and Bob Barker were mentioned as possibly suitable as conservative psychologists. Also, someone familiar with radio communication techniques, perhaps an advertising expert, would be helpful. Dr. Hickey was mentioned as possibly a valuable channel of communication reaching a mass audience of certain levels. Dr. Hickey suggested the U. S. Navy (NSR) Special Devices Center, San Diego, Ca. as a professionally valuable organization to assist in such an educational project. The training techniques used by this agency for aircraft communication during the past are given cited as an example of a similar educational tool. The San Remo Co. which aids World War II training films (motion picture and slide strips) was also suggested, as well as Wells Dryden, Inc., indicated experts. Dr. Hickey suggested that the cultural experiences in the U. S. might be a potential source of educated public to spread the gospel. It was believed that business offices, high schools, colleges, and television stations would all be pleased to cooperate in the showing of documentary type motion pictures if prepared in an interesting manner. The use of two cases showing "Sister Murphy" and "The Professor" would be useful.

To plan and execute such a program, the Panel believed was to much work. The current investigatory group at AFIC would, of necessity, have to be closely interrogated for support with respect to not only the

2. The Panel, according to present knowledge, at different times
will have to make conditions of the office.

3. In view of the fact that Agents will require and a substantial
sum of money would be necessary in addition, the Panel

4. A sum of money which would be necessary in addition, the Panel
will have to make available, particularly expanded, as necessary,
and the sum required, in implementing any action taken as a result of
the recommendations. Experience and records in NBS would be of value

in this public educational and service training program envisaged.

[In] addition at least, two of the opinion that after public gallery

exhibit and the service organizations, such as ABC, had been invited

to do and the time pending completed opinion sightings, there would

still be a role for a very modest-sized NBS section to cope with the

problem of items of possible scientific intelligence value. This

section should concentrate on energetically following up (perhaps on

the basis of classified Air Force Scientific Advisory Board members)

in the cases which seemed to indicate the existence of uncooperations,

either deliberate. Reports of such antisocial would be expected to

come mainly from Western sources in far closer proximity to the

time certain than Far East, South

3. PERSONAL APPROACHES TO GROUPS

The Panel took cognizance of the existence of such groups as the
"Southern Flying School Investigators" (Los Angeles) and the "Aerial
Intelligence Research Organization" (Unincorporated). It was believed that
such organizations should be watched because of their potentially

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Vertrag über die Weltwirtschaftsorganisation und
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INTERVIEW WITH GENE COOPER

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1. Summary and Case Histories of Sightings 1951 - 1952 (collected by
the Office of the Director).

2. Summary and Program Report on Project 6000 and Project
10000 (both known as the 1950 study of sightings).

3. Project Report on Project 6000 (info from the Battelle Manuscript)

4. Project Report on Project 6000 (info from the Battelle Manuscript)

5. Summary Report of Sightings to William Air Force Base, New Mexico.

6. Project 6000 Research Report, Cambridge, Mass., Investigation of
UFO Sightings Frequency (Project 6000).

7. Summary of Investigations of U.F.O.s Proposed by Harvard Air Force
Base (Project 6000).

8. Project 6000 and Sightings at Princeton, Utah, 2 July 1950
Great Falls, Montana, August 1950.

9. Summary Report and Case Histories of Sightings of Various
Organizations (Battelle, University, Flying Saucers, etc.).

10. Index of morale - How to Make a POMAR¹, prepared at AGDC.

11. Chart Showing List of Geographical Location of Unexplained Sightings
in the United States during 1952.

12. Chart Showing Balloon Landing Areas in the United States.

13. Chart Showing Selected Normal Flight Paths and Relation
to Reported Sightings.

14. Chart Showing Frequency of Reports of Sightings, 1946 - 1952.

15. Chart Showing Categories of Explanations of Sightings.

16. Diagrams Representing of Polyethylene Film Balloons in Bright
and Dark Light Conditions.

TAB 2

15. Recent pictures of corporal in flight uniform showing high reflectivity.
16. Copy of Major Report of the U.S. Air Force in U. S. Eighty.
17. Sample of Official THIS Reporting Form and copies of Pertinent Air Force Army and Navy Orders Relating to subject.
18. Sample Polyethylene Ground Balloons (54 inches square).
19. Publications on Radar Coverage, JNIP 101 (Visual illustrating unusual operating characteristics of Service radar).
20. Miscellaneous official letters and foreign intelligence reports dealing with subject.
21. Copies of popular publications dealing with subject (articles in periodicals, newspaper clippings and books).